
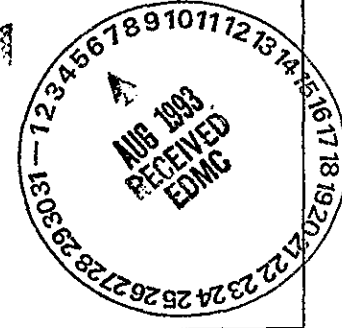


Date Received

7-5-92

Complete for all Types of Release

Complete for  
Speech or  
Presentation

START		INFORMATION RELEASE REQUEST		Reference: WHC-CM-3-4	
<b>Purpose</b> <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper (Check only one suffix) <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape <input type="checkbox"/> Reference <input type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other <u>Ecology (KEM)</u>			<b>ID Number (include revision, volume, etc.)</b> <u>TRAC - 0634</u> List attachments. <u>OPERATIONS LOG 6-364: 9, 1442</u> <u>LEAK DETECTION PIT LOG 2ND QUARTER OF 92, DISCREPANCY</u> <u>REPORT TFSA-91-414 DATED 11-1-91 PAGE SHOWING SCHEMATIC</u> <u>OF 10134 LEAK DETECTION PIT (LDP) LDP TRANSFER DATA SHEET</u> <b>Date Release Required</b> <u>DPS PROCEDURE TO-020-545</u> <u>H-2-37787</u>		
<b>Title</b> <u>DATA REQUESTED BY ECOLOGY CONCERNING 10134 INSL. OF 7-15-92</u>			<b>Unclassified Category</b> <u>UC-</u>		<b>Impact Level</b>
<b>New or novel (patentable) subject matter?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).			<b>Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
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<b>Date(s) of Conference or Meeting</b>		<b>City/State</b>	<b>Will proceedings be published?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Will material be handed out?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>Title of Journal</b>					
<b>CHECKLIST FOR SIGNATORIES</b>					
<b>Review Required per WHC-CM-3-4</b>		<b>Yes</b>	<b>No</b>	<b>Reviewer - Signature Indicates Approval</b>	
				<b>Name (printed)</b>	<b>Signature</b>
<b>Classification/Unclassified Controlled Nuclear Information</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BD Williamson</u>	<u>BD Williamson</u> 7/15/92
<b>Patent-General Counsel</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>BD Williamson</u>	<u>BD Williamson</u> 7/15/92
<b>Legal-General Counsel</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>Applied Technology/Export Controlled Information or International Program</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>GIT BERLIN</u>	<u>Git Berlin</u> 7/15/92
<b>WHC Program/Project</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>Communications</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>Eugene J. Senat</u>	<u>Eugene J. Senat</u> 7/15/92
<b>RL Program/Project</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>Publications Services</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>Other Program/Project</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Information conforms to all applicable requirements. The above information is certified to be correct.					
<b>References Available to Intended Audience</b>		<b>Yes</b>	<b>No</b>	<b>INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP</b>	
Transmit to DOE-HQ/Office of Scientific and Technical Information		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Stamp is required before release. Release is contingent upon resolution of mandatory comments.	
<b>Author/Requestor (Printed/Signature)</b> <u>Steve Spence</u>		<b>Date</b>		 	
<b>Intended Audience</b> <input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External		<b>Date</b>		<b>Date Cancelled</b>	
<b>Responsible Manager (Printed/Signature)</b> <u>[Signature]</u>		<b>Date</b>		<b>Date Disapproved</b>	

6-4-92

161

Continued pumping 241-SY-01C leak  
detector pit over ground to 241-SY-02A  
central pump pit, did not finish.

9413155.2078

Core sampling: Grovesyard, at 1028x  
riser #3, pulled sampler 4, 5, 6 & 7.  
Change of Cam lock caps on casters  
for shipping.

6-8-92

163

①

Finished all P testing in A and SX  
 Thermal  
 Xerox Containing Cathodic Protection  
 Work in N. House -  
 followed what steel in all joints  
 during G.M.'s and Dangers.

②. Completed pumping of both annulus  
 leak detector pits in ST farm OIC +  
 O2C. Pumped OIC to a WF of 10 and  
 O2C to a WF of 16. Replaced leak  
 detector back into Green O2A  
 central pump pit after finishing,  
 and retaped all three pits.

Workshop:

Performed wirepepping at  
 2M75t and Stock Landing  
 at core sample change location.

Field Crew:  
101- + 102  
01C-02C

82kall

① 241-01C-SY leak detector pit.  
started pumping to 02A center pump  
pit. pump ~~and~~ one diversion well  
finish 6-4-92 - per Process Memo.

②

~~Core Sample:~~ Transported reel to 327  
for decon, moved equipment  
around in 300 Area. Returned  
3 Cashes from 300 Area to  
200 West.

Work kept at 707 SX core  
box. Prepared for sampling 107 BX  
on graveyard.

LEAK DETECTION PIT TRANSFER  
OSR DATA SHEET

Date 6-3-92

Leak Detection Pit Number 241-SK 01C

Transfer to Tank 102 SK

SAR-006/OSR 11.4.2.2  
SAR-010/OSR 11.13  
SAR-016/OSR 11.5

Routing is in place and transfer may be started.

Supervision Signature Brian J Hall

Date 6-3-92

Leak Detection Pit Levels

Starting Liquid Level (or WF) 40 WF

Ending Liquid Level (or WF) 10 WF

Inches Transferred 30 WF

Background Reading 100 cpm

Sample Number (If required) N/A

SAR-010/OSR 11.14 (AY or AZ only)

Sample Reading <D cpm

Supervision Signature Brian J Hall

Date 6-8-92

Operator Signature Harry Penner

Date 6-8-92

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LEAK DETECTION PIT TRANSFER  
OSR DATA SHEETDate 6-5-92Leak Detection Pit Number 241-SY-02CTransfer to Tank 102-SY

SAR-006/OSR 11.4.2.2

SAR-010/OSR 11.13

SAR-016/OSR 11.5

Routing is in place and transfer may be started.

Supervision Signature *M. N. [Signature]*Date 6-5-92

## Leak Detection Pit Levels

Starting Liquid Level (or WF) 45 WFEnding Liquid Level (or WF) 16 WFInches Transferred 29"Background Reading 100 cpmSample Number (If required) NA

SAR-010/OSR 11.14 (AY or AZ only)

Sample Reading LD cpmSupervision Signature *Blin [Signature]*Date 6-8-92Operator Signature *Harry F. [Signature]*Date 6-8-92

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2802-51316



LEAK DETECTION PIT TRANSFER  
OSR DATA SHEET

Date 6-3-92

Leak Detection Pit Number 241-S4 OLC

Transfer to Tank 102 S4

SAR-006/OSR 11.4.2.2

SAR-010/OSR 11.13

SAR-016/OSR 11.5

Routing is in place and transfer may be started.

Supervision Signature Blair L Hall

Date 6-3-92

Leak Detection Pit Levels

Starting Liquid Level (or WF) 40 WF

Ending Liquid Level (or WF) 10 WF

Inches Transferred 30 WF

Background Reading 100 cpm

Sample Number (If required) NA

SAR-010/OSR 11.14 (AY or AZ only)

Sample Reading <D cpm

Supervision Signature Blair L Hall

Date 6-3-92

Operator Signature Harry Finerman

Date 6-8-92

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LEAK DETECTION PIT TRANSFER  
OSR DATA SHEET

Date 6-5-92

Leak Detection Pit Number 241-SY-02C

Transfer to Tank 102-SY

SAR-006/OSR 11.4.2.2

SAR-010/OSR 11.13

SAR-016/OSR 11.5

Routing is in place and transfer may be started.

Supervision Signature *AN*

Date 6-5-92

Leak Detection Pit Levels

Starting Liquid Level (or WF) 45 WF

Ending Liquid Level (or WF) 16 WF

Inches Transferred 29"

Background Reading 100 cpm

Sample Number (If required) NA

SAR-010/OSR 11.14 (AY or AZ only)

Sample Reading LD cpm

Supervision Signature *Blind Hall*

Date 6-8-92

Operator Signature *Harry F. Emery*

Date 6-8-92

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## PLANT OPERATING PROCEDURE

TANK FARM

Operation

GENERAL

System

## PERFORM LEAK DETECTION PIT TRANSFERS

I. SYSTEM DESCRIPTION

This procedure provides instruction for making an intra-farm transfer from a Leak Detection Pit to an adjacent tank.

II. PRESTART CONDITION

None

III. SAFETY

Warning - High dose rates and contamination are possible during sampling activities.

## OPERATIONAL SAFETY REQUIREMENTS (SD-WM-SAR-006)

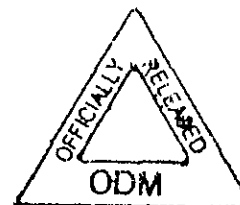
## OSR 11.4.2.2 WASTE TRANSFERS TO INTERIM ISOLATED FACILITIES

Requirement

No waste shall be transferred to an interim isolated facility. No nozzle seal shall be removed which provides a connection from an active facility to an interim isolated facility.

Recovery

If the transfer requirement is violated, the transfer shall be halted immediately at the source. If the nozzle seal requirement is violated, the seal shall be replaced as soon as possible consistent with good radiological practice. The shift manager shall notify the managers of TFS&O and TF&EPE. All transfers in the vicinity of the interim isolated facility shall be halted until a recovery plan is in place. The managers of TFS&O and TF&EPE shall establish a recovery plan to ensure that the facility is again isolated, and to evaluate the probable effects if a transfer has occurred.



Release Date

11-1-90

Expiration

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### III. SAFETY (Cont.)

#### OPERATIONAL SAFETY REQUIREMENTS (SD-HS-SAR-010)

##### OSR 11.8 WASTE TRANSFER SYSTEM LEAK DETECTION

###### Requirement

Limiting Condition for Operation (LCO): Transfer system leak detectors shall be verified as operable (not failed) before a transfer is initiated, or applicable diversion boxes/catchtanks shall be constantly surveyed with portable conductivity probes during the transfer.

###### Recovery

If the LCO requirement is exceeded, the manager of TFS&O, WMPE, and WMHP shall be notified. Transfers shall be terminated if leak detection capability cannot be provided or is lost. Recovery action may include the use of temporary leak detection devices. Restoration of a permanent leak detector shall be completed on a priority basis. If a surveillance requirement is exceeded actions defined in section 11.2.6.3 shall be taken.

##### OSR 11.13 MAXIMUM LIQUID LEVEL

###### Requirement

The maximum liquid of froth level in 241-AZ and AZ Tanks shall be less than 370 in.

###### Recovery

If this requirement is violated, the shift manager shall immediately notify the managers of Tank Farm Processing and TF&EPC. The tank shall be restored to compliance with the requirement. Radiation Monitoring shall survey the tank farm to determine whether any new radiological conditions are present that must be addressed.

##### OSR 11.14 CHEMICAL COMPOSITION

###### Requirement

The composition of waste stored in aging-waste tanks shall be controlled to achieve the most favorable corrosion rates possible in order to maximize tank life. A spare aging-waste tank shall be maintained for use in the event of premature failure of an operating tank.

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### III. SAFETY (Cont.)

#### Recovery

If this requirement is violated, transfer of waste solution to aging-waste tanks shall cease or be curtailed as appropriate. The shift manager shall immediately notify the managers of Tank Farm Services and TF&EPC. A recovery plan shall be prepared and formally approved by management, and a reevaluation of tank service life shall be made.

#### OPERATIONAL SAFETY REQUIREMENTS (SD-WM-SAR-016)

##### OSR 11.5 PRIMARY TANK MINIMUM LIQUID LEVEL

#### Requirement

Limiting Condition of Operation (LCO): The ventilation system shall not be operated unless the liquid level is 6 in. (241-SY, AN, AW and AP Tanks).

#### Recovery

If the LCO requirement is violated, the shift manager shall contact the managers of TFS&O and TF&EPC. Recovery actions include addition of water or waste and/or manipulation of the primary exhaust system. If a surveillance requirement is violated, actions defined in section 11.2.6.3 shall be taken.

#### OPERATIONAL SAFETY REQUIREMENTS (SD-WM-SAR-016)

##### OSR 11.7 WASTE TRANSFER SYSTEM LEAK DETECTION

#### Requirement

Limiting Condition for Operation (LCO): Transfer system leak detectors shall be verified as operable (not failed) before a transfer is initiated, or applicable diversion boxes/catch tanks shall be constantly surveyed with portable conductivity probes during the transfer.

#### Recovery

If the LCO is violated the manager of TFS&O, TF&EPE and S&QA shall be notified. Transfers shall be terminated if leak detection capability cannot be provided and shall be terminated if lost. Recovery action may include the use of temporary leak detection devices. Restoration of a permanent leak detector shall be completed on a priority basis. If a surveillance requirement is violated, actions defined in section 11.2.6.3 shall be taken.

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### III. SAFETY (Cont.)

Applicable Safety Documents - Provisions of Radiation Protection Manual, WHC-CM-4-10; Radiation Work Requirements and Permits Manual, WHC-CM-4-15, Vol. 2; Industrial Safety Manual, WHC-CM-4-3, Vols 1-3; Building Emergency Plan, WHC-IP-0263; and Tank Farm Safety Rules apply to all work performed under this procedure.

### IV. TOOLS AND SUPPLIES

Pump  
Water Hose  
Paper  
Plastic  
Plastic Sleeving  
Plastic Bags  
Tape  
Knives  
Masks  
Contamination Containers  
Data Sheet  
SOP TO-020-240, Water Addition to Leak Detection Pits  
SOP TO-020-270, Equipment Removal or Installation at Diversion  
Boxes and Pits  
SD-WM-SAR-006, SINGLE SHELL TANK ISOLATION  
SD-HS-SAR-010, AGING WASTE  
SD-WM-SAR-016, DOUBLE SHELL TANK FARM FACILITY  
OSD-T-151-00007, OPERATION SPECIFICATIONS FOR 241-AN, AP, AW, AY, AZ  
AND SY  
OSD-T-151-00013, OPERATING SPECIFICATIONS FOR SINGLE SHELL WASTE  
STORAGE TANKS  
OSD-T-151-00017, OPERATING SPECIFICATIONS FOR AGING WASTE OPERATIONS

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VI. PROCEDURE

A. PUMP LEAK DETECTION PITS EXCEPT 101-AZ

NOTE - All overground pumping is to be directed by Tank Farm Operations supervision, who will verify by visual inspection that the routing and equipment is in place prior to start of transfer.

- If cover block removal is required, remove per TO-020-270, EQUIPMENT REMOVAL OR INSTALLATION AT DIVERSION BOXES AND PITS.

1. Contact Tank Farm Plant Engineering (TFPE) to select a receiver tank and record tank number on data sheet.
2. Take a dip sample from leak detection pit and have HPT survey sample. Record, on data sheet, the reading on the sample, background reading and starting liquid level.

Hold Point: If the HPT determines that the sample may be contaminated, an "LK PIT" laboratory analysis must be performed on the sample before proceeding. If the sample and background are identical, continue.

---

WARNING

HEALTH PHYSICS TECHNICIAN (HPT) SURVEILLANCE IS REQUIRED DURING INSTALLATION AND REMOVAL OF PUMP AND HOSE. PUMP AND HOSE MAY BE CONTAMINATED.

---

3. Have HPT survey pump and hoses to be used in the transfer.

Hold Point: If the HPT determines that either the hose or pump is contaminated, the equipment will not be used in an uncontaminated pump pit.

4. Install pump in leak detection pump pit.
5. Run pumpout hose between pump and riser of receiver tank. All pipe joints and connector heads of the overground line shall be wrapped with plastic and ends securely taped to prevent moisture from entering or leaving assembly. Prepare discharge end of hose to prevent contamination of hose from tank riser.

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A. PUMP LEAK DETECTION PITS EXCEPT 101-AZ (Cont.)

6. Remove riser cover on primary tank and insert hose. Wrap plastic around hose, riser flange and hose connection joints.
7. Refer to TABLE 1 to determine amount of liquid to be transferred.

NOTE - The minimum and maximum Weight Factor (WF) instrument readings allowable for normal operation is listed in the "Min. Limit" and "Max. Limit" columns of TABLE 1 for each leak detection pit. Water should be added if readings are below the "Min" figure. Water should be removed if readings exceed the "Max" figure.

8. Start pump and transfer contents of leak detection pit to tank.
9. When the pump has been started, walk the transfer line to check for leaks.

---

**WARNING**

**HEALTH PHYSICS TECHNICIAN (HPT) SURVEILLANCE IS REQUIRED DURING INSTALLATION AND REMOVAL OF HOSE. HOSE MAY BE CONTAMINATED.**

---

10. When transfer is complete, remove hose from tank riser. Replace riser cover and request HPT to survey hose for contamination.
11. Record final liquid level of leak detection pit on DATA SHEET.
12. Remove pump and hose from area.

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TABLE 1

LEAK DETECTION PIT	TYPE	RANGE	READING	MIN. LIMIT	MAX. LIMIT
101-AX	Dial	0-30	Direct	4	17
102-AX	Dial	0-30	Direct	0	17
103-AX	Dial	0-30	Direct	4	17
104-AX	Dial	0-30	Direct	4	17
101-A-AY	Dial	0-50	Mult. by 2	4	20
101-B-AY	Dial	0-50	Mult. by 2	4	20
102-AY	Dial	0-50	Mult. by 2	4	20
101-AZ	Dial	0-50	Mult. by 2	4	28
102-AZ	Dial	0-50	Mult. by 2	4	28
101/102-AZ	Dial	0-50	Mult. by 4	4	28
01C-AW	Dial	0-100	Direct	12	36
02C-AW	Dial	0-100	Direct	12	36
03C-AW	Dial	0-100	Direct	12	36
04C-AW	Dial	0-100	Direct	12	36
05C-AW	Dial	0-100	Direct	12	36
06C-AW	Dial	0-100	Direct	12	36
01C-AN	Dial	0-100	Direct	12	36
02C-AN	Dial	0-100	Direct	12	36
03C-AN	Dial	0-100	Direct	12	36
04C-AN	Dial	0-100	Direct	12	36
05C-AN	Dial	0-100	Direct	12	36
06C-AN	Dial	0-100	Direct	12	36
07C-AN	Dial	0-100	Direct	12	36
01C-SY	Dial	0-50	Mult. by 4	4	24
02C-SY	Dial	0-50	Mult. by 4	4	24
3C-SY	Dial	0-50	Mult. by 4	4	24
03C-AP	Guage	0-130	Direct	12	36
05C-AP	Guage	0-130	Direct	12	36

\* Any changes to the WF limits must be reflected in WHC-SD-WM-TI-357.

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B. PUMP 101-AZ LEAK DETECTION PIT

NOTE - The transfer route for pumping the 101-AZ leak detection pit is through the floor drain to the 101-AZ tank.

1. Request crane crew to remove 101-AZ leak detection pit cover.
2. Take a dip sample from leak detection pit and have HPT survey sample. Record, on DATA SHEET, the reading on the sample, background reading and starting liquid level.

Hold Point: If the HPT determines that the sample may be contaminated, an "LK PIT" laboratory analysis must be performed on the sample before proceeding. If the sample and background are identical, continue.

3. Request crane crew to reinstall cover block.
4. Verify that a power cable is not connected to the 101-AZ transfer pump control station (located north of O1C pit) and that 101-AZ transfer pump circuit breaker P-101 (Pit O1C), located in AZ-801 instrument bldg., is OFF.
5. Lift and turn 101-AZ Leak Detection Pit drain 90 degrees with bail hook.
6. Request electrician to connect 101-AZ leak detection pit pump power cable to 101-AZ transfer pump control station power outlet (just north of the 101-AZ O1C Sluice Pit).

---

CAUTION

Transfer pump power cable must exit the transfer pump pit near the pump control station. If the transfer pump power cable and connector are not visible do not proceed until the pump status is verified with Double-Shell Tank Process Engineering.

---

7. Verify transfer pump power cable exits transfer pump pit near the pump control station.
8. Switch the P-101 (Pit O1C) circuit breaker ON located in the AZ-801 instrument building.
9. Record the starting weight factor on DATA SHEET.

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B. Pumping 101-AZ Leak Detection Pit (Cont.)

10. Push START button on 101-AZ Transfer Pump Control Station to begin pumping.
11. When the transfer is complete, push STOP button on 101-AZ Transfer Pump Control Station to shut pump off.
12. Switch P-101 (Pit 01C) circuit breaker Off.
13. Record final weight factor on DATA SHEET.
14. Have electrician disconnect leak detection pit pump power cable from pump control station. Wind up power cable and place near 101-AZ Leak Detection Pit.
15. Turn drain with bail hook until drain drops into place.
16. Send DATA SHEET to TFPE via 272-AW supervision.

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LEAK DETECTION PIT TRANSFER  
OSR DATA SHEET

Date \_\_\_\_\_

Leak Detection Pit Number \_\_\_\_\_

Transfer to Tank \_\_\_\_\_

SAR-006/OSR 11.4.2.2

SAR-010/OSR 11.13

SAR-016/OSR 11.5

Routing is in place and transfer may be started.

Supervision Signature \_\_\_\_\_ Date \_\_\_\_\_

Leak Detection Pit Levels

Starting Liquid Level (or WF) \_\_\_\_\_

Ending Liquid Level (or WF) \_\_\_\_\_

Inches Transferred \_\_\_\_\_

Background Reading \_\_\_\_\_ cpm

Sample Number (If required) \_\_\_\_\_

SAR-010/OSR 11.14 (AY or AZ only)

Sample Reading \_\_\_\_\_ cpm

Supervision Signature \_\_\_\_\_ Date \_\_\_\_\_

Operator Signature \_\_\_\_\_ Date \_\_\_\_\_

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680-00

# **Tank Farm Surveillance Analysis and Support DISCREPANCY REPORT**

**To: L. E. EYRE MANAGER, WEST TFO      MSIN: T4-01**

**Date of Discrepancy: November 01, 1991**

**Report No.: TFSA-91-414**

**Description of Discrepancy**

The following Leak Detection Pit (LDP) radiation data sheet readings have been recorded with the term "rejected". No radiation reading has been recorded since 10/23/91.

101-SY (LDP) 10/23/91      This is a daily requirement.

**INSTRUCTIONS:**

- Response requested by      November 18, 1991
- Provide a diagnosis and corrective action for each item above, specifying:
  - (A) Immediate actions taken to correct the discrepancy or failure, and maintain readings within WHC-SD-WM-TI-357 limits.
  - (B) Actions that will be taken to prevent recurrence.
  - (C) Planned completion date for corrective actions.

Prepared by:

**R. R. RIOS** *RRR*

Approved by:

*Notes*  
Manager, TFSA

Date:

11-6-91

**CORRECTIVE ACTION STATEMENT**

**Diagnosis and Corrective Action**

Work request 2W-91-0016W issued for repair of leak detection pit recorder. Work is in progress. Unit has a failed power supply waiting for replacement part to complete repairs.

Corrective Action Statement Prepared by

*James E. Parnell*  
Name and Title

Date 1-24-92

Discrepancy Report Closed by

*RRR*  
TFSA Engineer

Date 01/23/92

Distribution:	JJ Badden	S5-15	DG Hamrick	R1-62	WL Parnell	S5-12
	GT Frater	R1-51	JP Harris III	R1-51	RR Rios	R1-80
	SD Godfrey	R1-51	RW Jacobson	S5-01		File

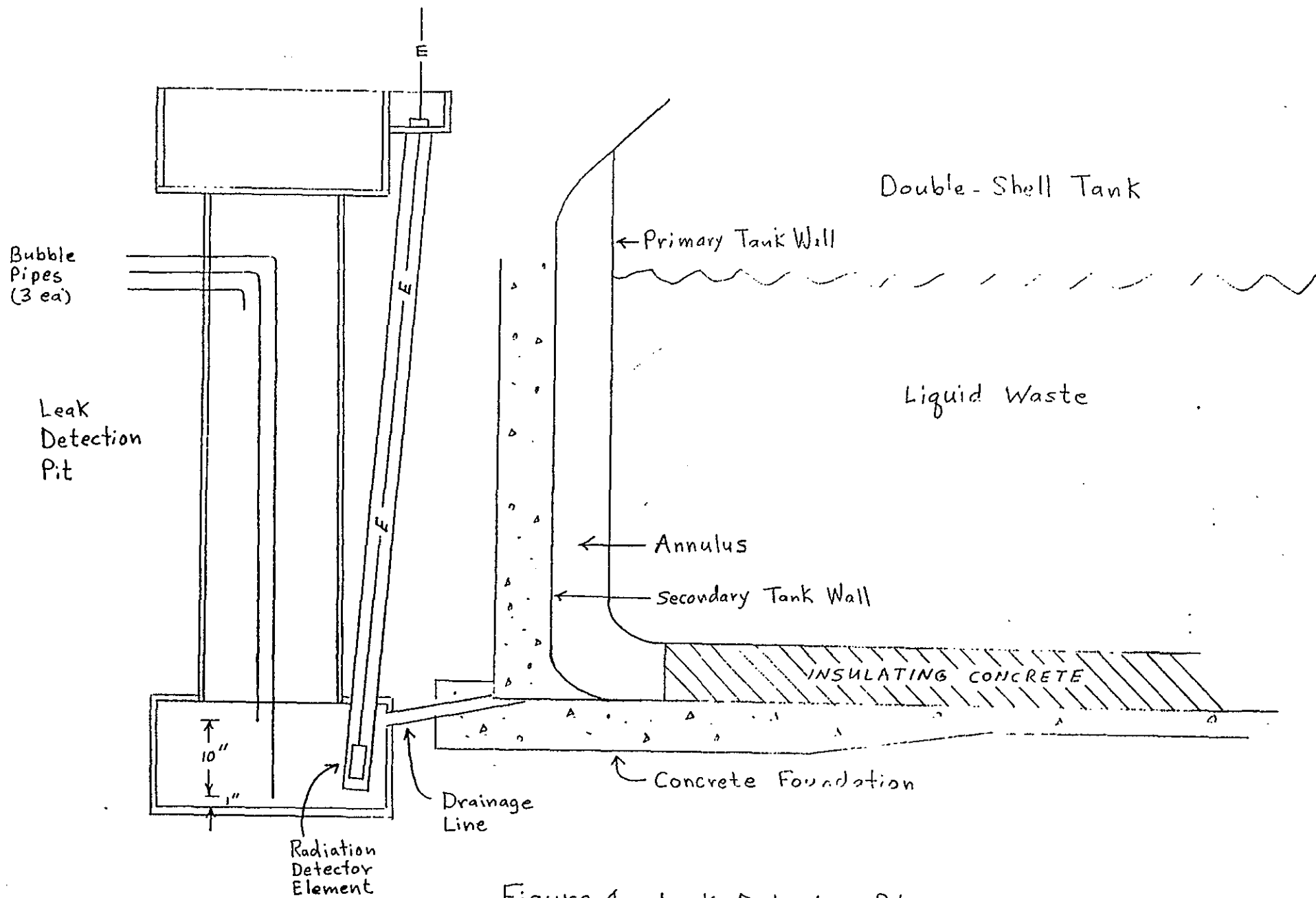


Figure 4. Leak Detection Pit Leak Detectors

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